

FIG. 1

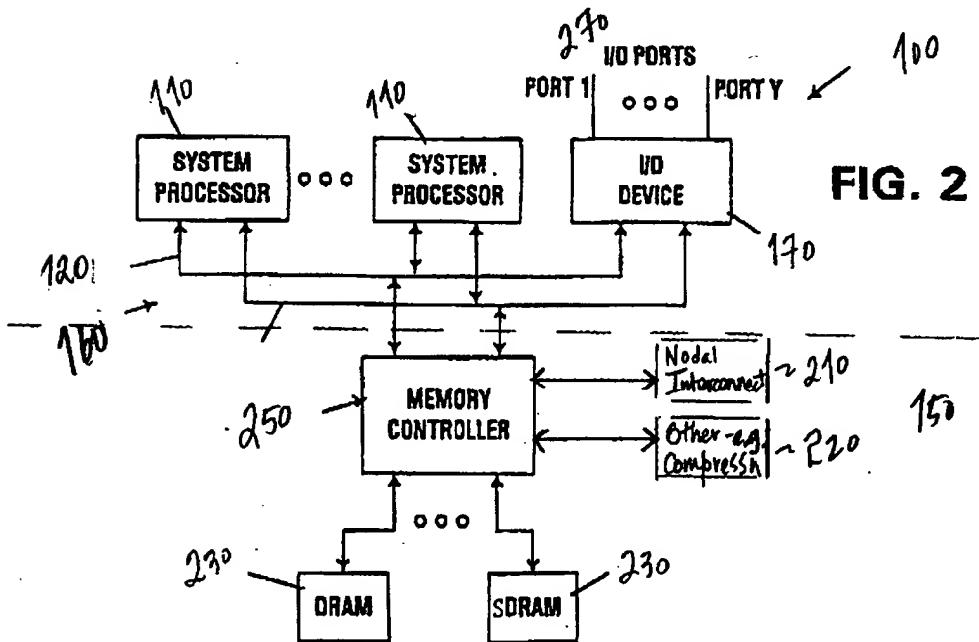
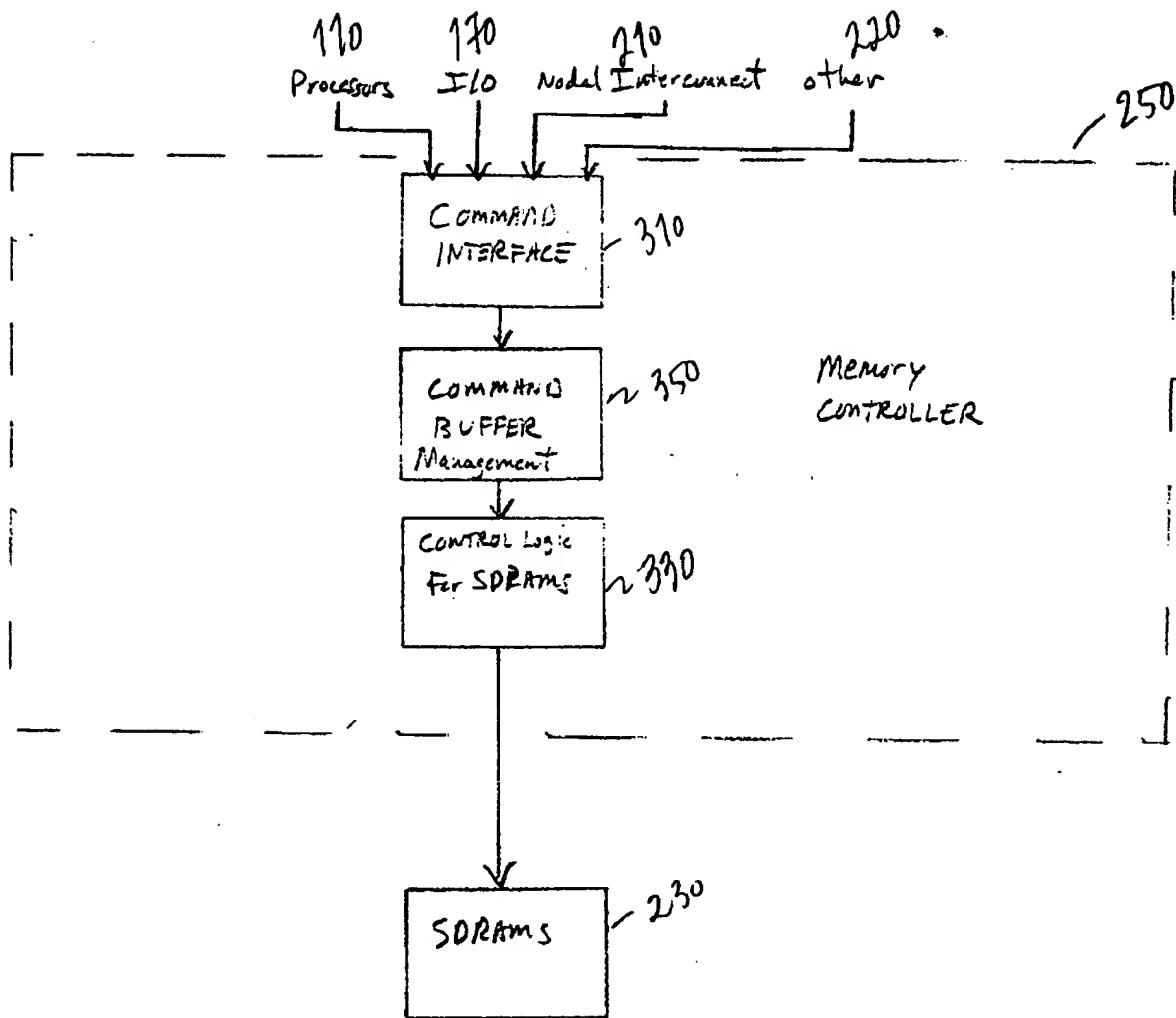


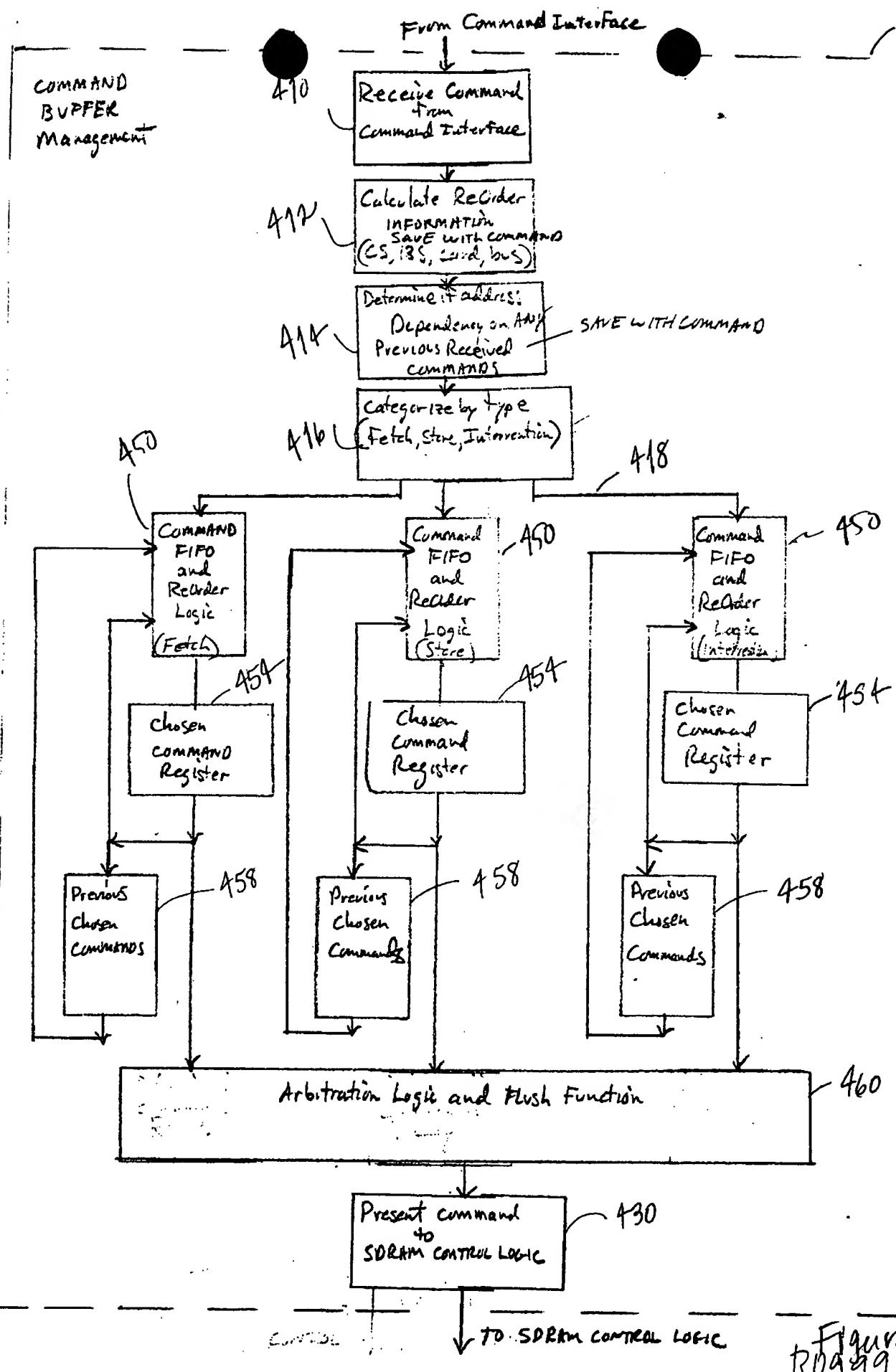
FIG. 2

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Figures 1,2



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Figure 3

Figure 4
R099-080

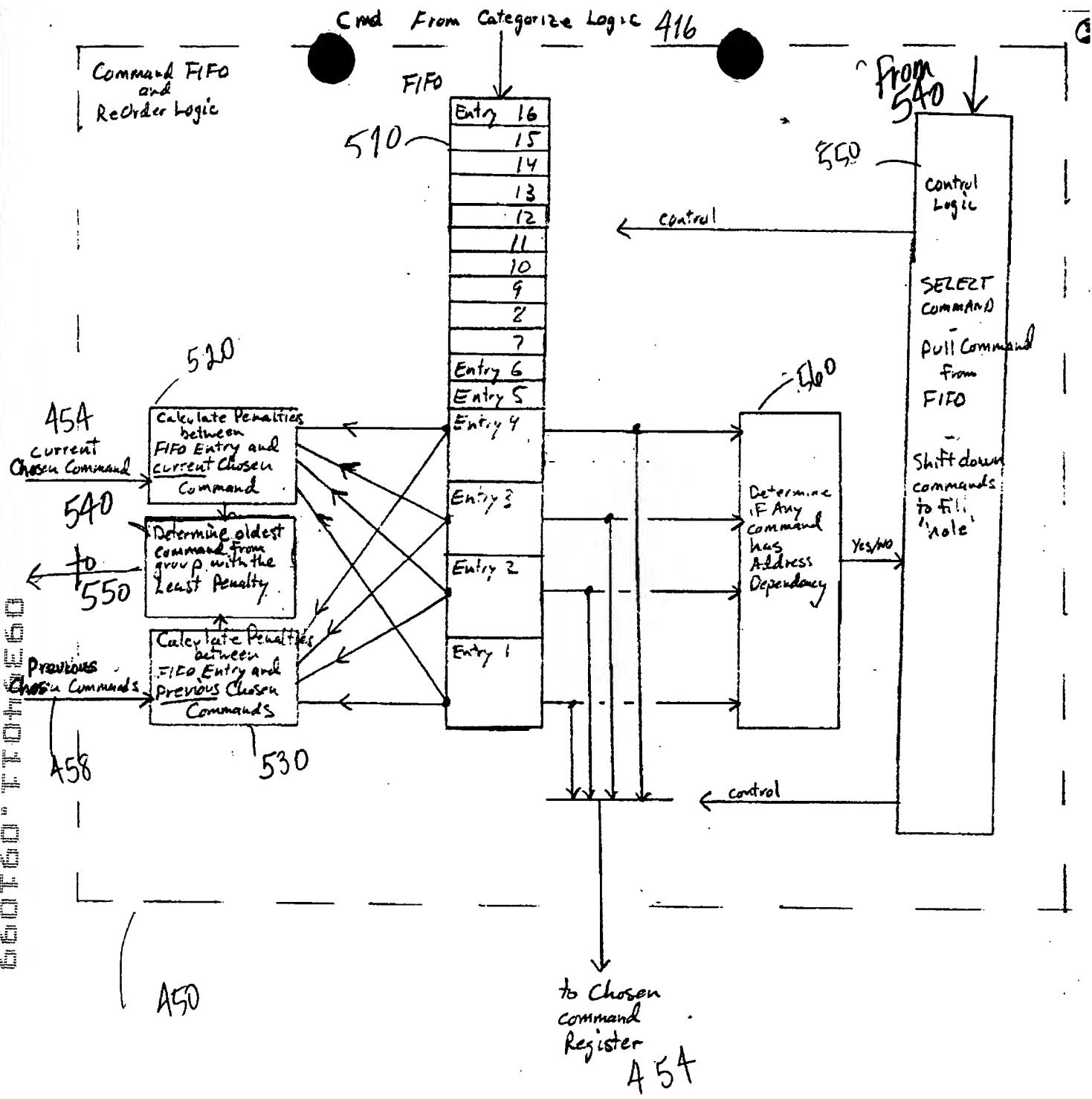
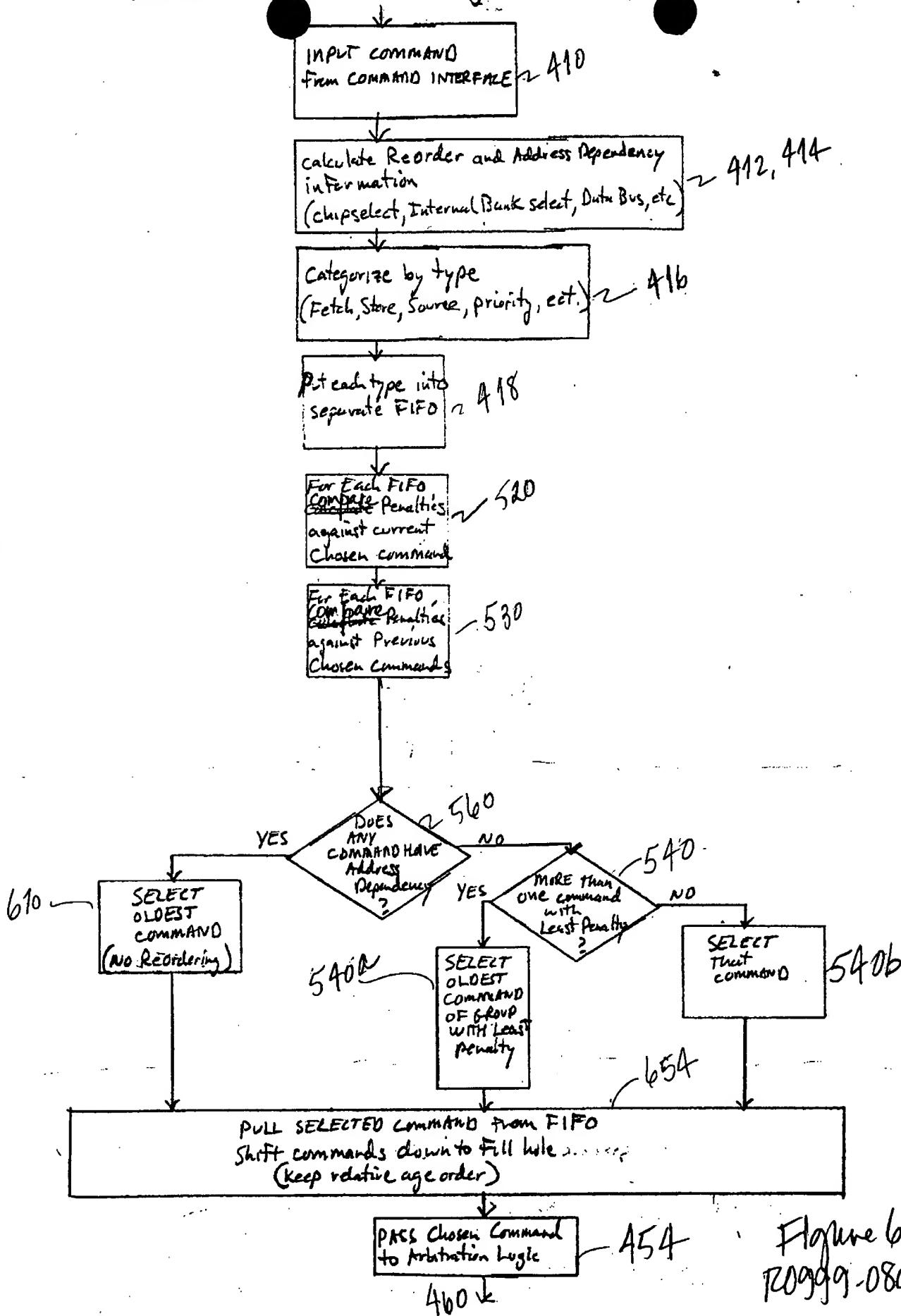


Figure 5
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Command FIFO and ReOrdering - Flow Diagram

⑤

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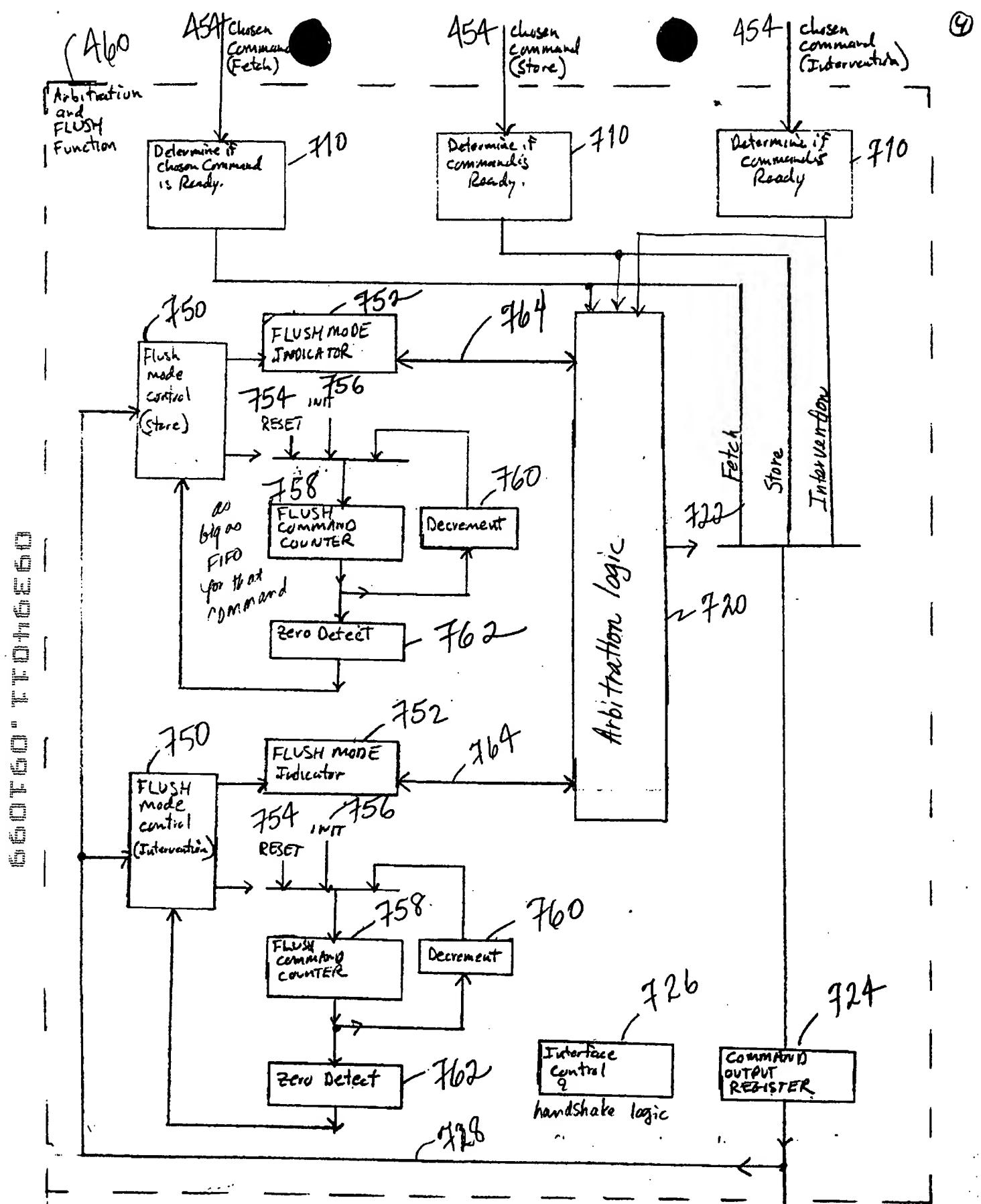
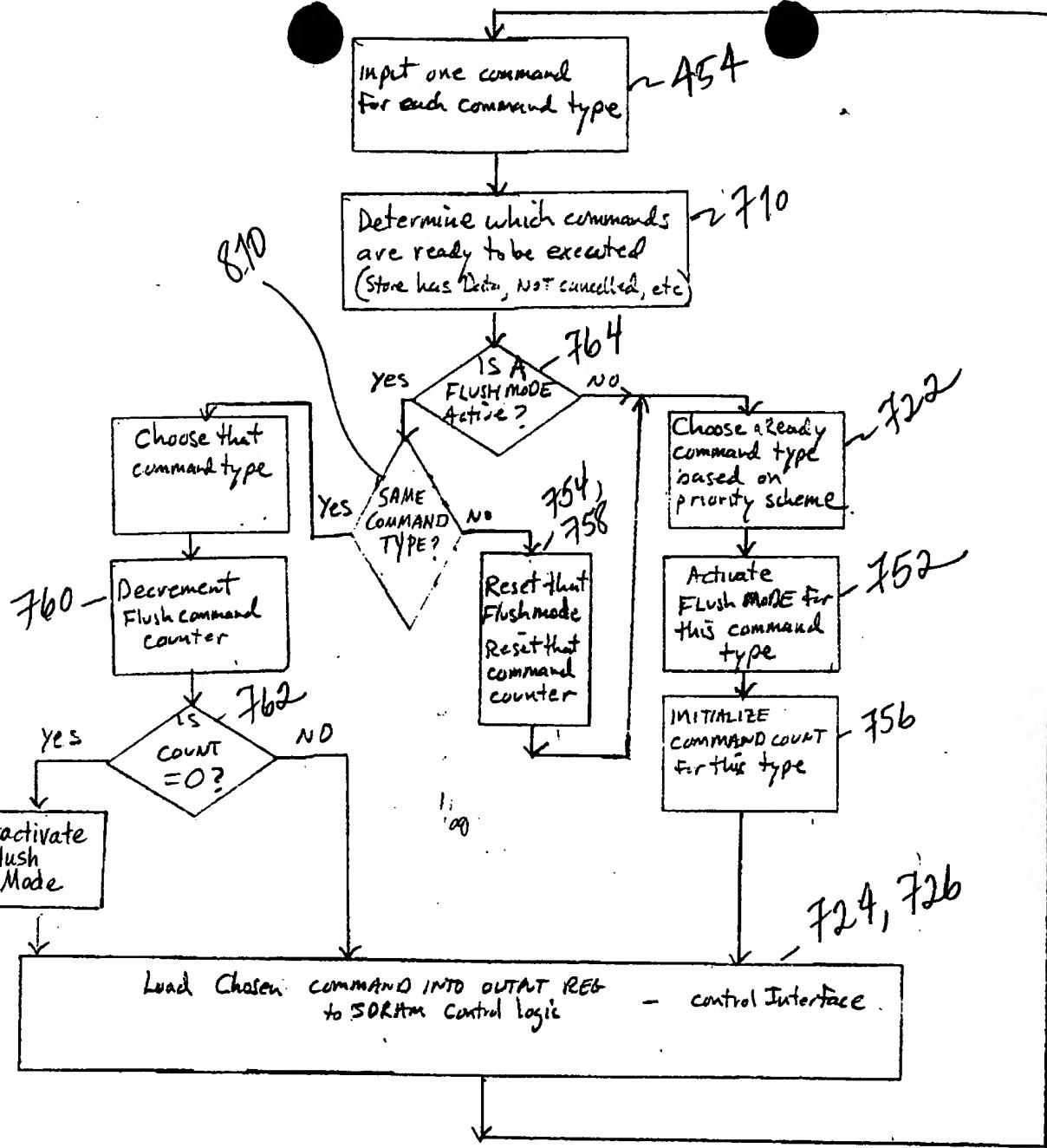


Figure 7 T0999-080

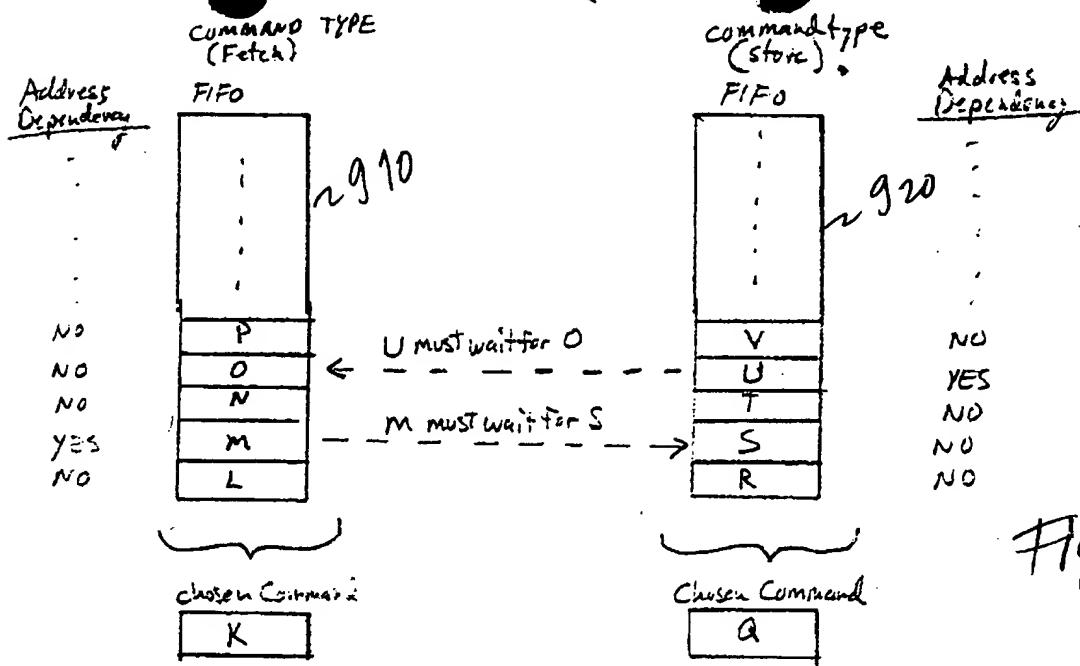
730. SORTER CONTROL LOGIC



FLUSH Function and Arbitrate Logic - Flow Diagram

Figure 8-10999-080

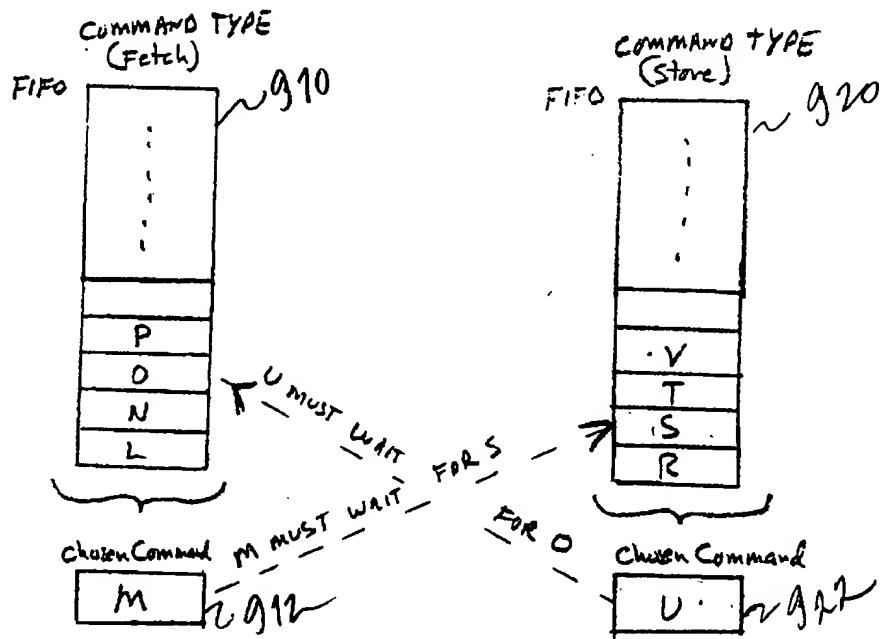
Possible Deadlock Condition - (Avoided by executing as FIFO)



- COMMAND U address is in same cacheline as command O, and was received after command O.
- COMMAND M address is in same cacheline as command S, and was received after command S.

* IF Commands in both FIFOs, execute in order, then no deadlock.

Deadlock Condition - (Occured by ReOrdering)



* IF certain command chosen by ReOrder Logic, then deadlock

- Key idea is to not reorder if any command being considered has an address dependency

ROGOG - 080